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| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br>INFORMATION DISCLOSURE STATEMENT BY APPLICANT<br><br>(37 CFR 1.98(b)) | ATTY. DOCKET NO.<br>2001DE407 | SERIAL NO.<br>10/085,712 |
| APPLICANT: Frank-Peter LANG, et al.                                                                                                                      |                               |                          |
| FILING DATE: 2/28/02                                                                                                                                     |                               | GROUP:                   |

## U.S. PATENT DOCUMENTS

| Examiner Initial                                                                                                                                                            |                               | Patent Number | Issue Date | Patentee                 | Class | Subclass | Filing Date if Appropriate |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|------------|--------------------------|-------|----------|----------------------------|
| no                                                                                                                                                                          | AA                            | 3,128,287     | 4/7/64     | Berg                     |       |          |                            |
| no                                                                                                                                                                          | AB                            | 3,159,581     | 12/1/64    | Diehl                    |       |          |                            |
| no                                                                                                                                                                          | AC                            | 3,213,030     | 10/19/65   | Diehl                    |       |          |                            |
| no                                                                                                                                                                          | AD                            | 3,332,880     | 7/25/67    | Kessler, et al.          |       |          |                            |
| no                                                                                                                                                                          | AE                            | 3,400,140     | 9/3/68     | Quimby, et al.           |       |          |                            |
| no                                                                                                                                                                          | AF                            | 3,422,021     | 1/14/69    | Roy                      |       |          |                            |
| no                                                                                                                                                                          | AG                            | 3,422,137     | 1/14/69    | Quimby                   |       |          |                            |
| no                                                                                                                                                                          | AH                            | 3,635,830     | 1/18/72    | Lamberti, et al.         |       |          |                            |
| no                                                                                                                                                                          | AI                            | 3,936,537     | 2/3/76     | Haskerville, Jr., et al. |       |          |                            |
| no                                                                                                                                                                          | AJ                            | 3,985,669     | 10/12/76   | Krummel, et al.          |       |          |                            |
| no                                                                                                                                                                          | AK                            | 4,374,035     | 2/15/83    | Bossu                    |       |          |                            |
| no                                                                                                                                                                          | AL                            | 4,412,934     | 11/1/83    | Chung, et al.            |       |          |                            |
| no                                                                                                                                                                          | AM                            | 4,536,314     | 8/20/85    | Hardy, et al.            |       |          |                            |
| no                                                                                                                                                                          | AN                            | 4,539,130     | 9/3/85     | Thompson, et al.         |       |          |                            |
| no                                                                                                                                                                          | AO                            | 4,566,984     | 1/28/86    | Bush                     |       |          |                            |
| no                                                                                                                                                                          | AP                            | 4,605,509     | 8/12/86    | Corkill, et al.          |       |          |                            |
| no                                                                                                                                                                          | AQ                            | 4,606,838     | 8/19/86    | Burns                    |       |          |                            |
| no                                                                                                                                                                          | AR                            | 4,634,551     | 1/6/87     | Burns, et al.            |       |          |                            |
| no                                                                                                                                                                          | AS                            | 4,653,071     | 5/5/87     | Bush, et al.             |       |          |                            |
| no                                                                                                                                                                          | AT                            | 4,664,839     | 5/12/87    | Rieck                    |       |          |                            |
| no                                                                                                                                                                          | AO                            | 4,671,891     | 6/9/87     | Hartman                  |       |          |                            |
| no                                                                                                                                                                          | AV                            | 4,681,592     | 7/21/87    | Hardy, et al.            |       |          |                            |
| no                                                                                                                                                                          | AW                            | 4,681,695     | 7/21/87    | Divo                     |       |          |                            |
| no                                                                                                                                                                          | AX                            | 4,686,063     | 8/11/87    | Burns                    |       |          |                            |
|                                                                                                                                                                             | AY                            |               |            |                          |       |          |                            |
| EXAMINER <i>L. M. C. H.</i>                                                                                                                                                 | DATE CONSIDERED <i>4/5/04</i> |               |            |                          |       |          |                            |
| EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                               |               |            |                          |       |          |                            |

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|                                                                                                                                                          | APPLICANT: Lang, et al.       |                          |
|                                                                                                                                                          | FILING DATE: 2/28/02          | GROUP: 1751              |

## U.S. PATENT DOCUMENTS

| Examiner Initial |    | Patent Number | Issue Date | Patentee            | Class | Subclass | Filing Date if Appropriate |
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| AD               | AA | 5,372,747     | 12/13/94   | Uhrig, et al.       |       |          |                            |
| AD               | AB | 6,008,316     | 12/28/99   | Foster, Jr., et al. |       |          |                            |
|                  | AC |               |            |                     |       |          |                            |

## FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION

|    |    | DOCUMENT NUMBER | PUB. DATE | COUNTRY |   | TRANSLATION  |
|----|----|-----------------|-----------|---------|---|--------------|
| AD | BA | EP 0 341 593    | 11/15/69  | Europe  | — | See AA Above |
|    | BB |                 |           |         |   |              |

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication\*\*)

|                                                                                                                                                                             |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CA                                                                                                                                                                          |                 |
| CB                                                                                                                                                                          |                 |
| CC                                                                                                                                                                          |                 |
| CD                                                                                                                                                                          |                 |
| EXAMINER                                                                                                                                                                    | DATE CONSIDERED |
| AD                                                                                                                                                                          | 4/5/04          |
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|                                                                                                                                                          | FILING DATE: 2/28/02          | GROUP: 1751              |

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| Examiner Initial |    | Patent Number | Issue Date | Patentee            | Class | Subclass | Filing Date If Appropriate |
|------------------|----|---------------|------------|---------------------|-------|----------|----------------------------|
| NO               | AA | 4,166,845     | 9/4/79     | Hansen, et al.      | 424   | 78       |                            |
| NO               | AB | 4,634,544     | 1/6/87     | Webex, et al.       | 252   | 99       |                            |
| NO               | AC | 6,008,316     | 12/28/99   | Foster, Jr., et al. | 528   | 229      |                            |
| NO               | AD | 6,025,322     | 2/15/00    | Boeckh, et al.      | 510   | 516      |                            |

## FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION

|    |    | DOCUMENT NUMBER | PUB. DATE | COUNTRY |   |   | TRANSLATION |
|----|----|-----------------|-----------|---------|---|---|-------------|
| NO |    |                 |           |         |   |   |             |
| NO | BA | EP 0 341 205    | 11/8/89   | Europe  | — | — | English     |
| NO | BB | WO 98/29530     | 7/8/98    | WIPO    | — | — | English     |
| NO | BC | EP 0 978 556    | 2/9/00    | Europe  | — | — | English     |
| NO | BD | EP 0 979 861    | 2/16/00   | Europe  | — | — | English     |
| NO | BE | EP 1 020 513    | 7/19/00   | Europe  | — | — | English     |
| NO | BF | WO 00/56848     | 9/18/00   | WIPO    | — | — | English     |
| NO | BG | WO 01/59054     | 8/16/01   | WIPO    | — | — | English     |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| CA                                                                                                                                                                          | English abstract for JP 04-312502, 11/4/1992 |
| CB                                                                                                                                                                          |                                              |
| CC                                                                                                                                                                          |                                              |
| CD                                                                                                                                                                          |                                              |
| EXAMINER                                                                                                                                                                    | DATE CONSIDERED 4/5/04                       |
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|                                                                                                                                                          |    |                    |              | APPLICANT: Frank-Peter LANG, et al. |   |                          |             |
|                                                                                                                                                          |    |                    |              | FILING DATE: 2/28/02                |   | GROUP:                   |             |
| FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION                                                                                                          |    |                    |              |                                     |   |                          |             |
|                                                                                                                                                          |    | DOCUMENT<br>NUMBER | PUB.<br>DATE | COUNTRY                             |   |                          | TRANSLATION |
| AD                                                                                                                                                       | BA | 1,082,179          | 9/6/67       | Great Britain                       | — | —                        | English     |
| AD                                                                                                                                                       | BB | 0 384 070          | 8/29/90      | Europe                              | — | —                        | English     |
| AD                                                                                                                                                       | BC | 0 462 806          | 12/27/91     | Europe                              | — | —                        | English     |
| AD                                                                                                                                                       | BD | 97/42287           | 11/13/97     | WIPO                                | — | —                        | English     |
| AD                                                                                                                                                       | BE | 0 811 679          | 12/10/97     | Europe                              | — | —                        | English     |
| AD                                                                                                                                                       | BF | 98/12296           | 3/26/98      | WIPO                                | — | —                        | English     |
| AD                                                                                                                                                       | BG | 0 841 391          | 5/13/98      | Europe                              | — | —                        | English     |
| AD                                                                                                                                                       | BH | 0 854 136          | 7/22/98      | Europe                              | — | —                        | English     |
| AD                                                                                                                                                       | BI | 98/38276           | 9/3/98       | WIPO                                | — | —                        | English     |
| AD                                                                                                                                                       | BJ | 01/00767           | 1/4/01       | WIPO                                | — | —                        | English     |
|                                                                                                                                                          | BK |                    |              |                                     |   |                          |             |
|                                                                                                                                                          | BL |                    |              |                                     |   |                          |             |
|                                                                                                                                                          | BM |                    |              |                                     |   |                          |             |
|                                                                                                                                                          | BN |                    |              |                                     |   |                          |             |

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| AD                                                                                                                                                                          | CA | W. Stein, et al., "α-Sulfonated Fatty Acids and Ester: Manufacturing Process, Properties, and Applications", The Journal of the American Oil Chemists Society, 52 (1975), p. 323-329 |
| AD                                                                                                                                                                          | CB | U.S. application serial no. 10/085,997, filed 2/28/2002, Lang, et al.                                                                                                                |
|                                                                                                                                                                             | CC |                                                                                                                                                                                      |
| EXAMINER                                                                                                                                                                    |    | DATE CONSIDERED                                                                                                                                                                      |
| L. M. C. A.                                                                                                                                                                 |    | 4/5/04                                                                                                                                                                               |
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